



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010623
CERTIFICATION DATE: January 14, 2014
DATE RECERTIFICATION DUE: July 13, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

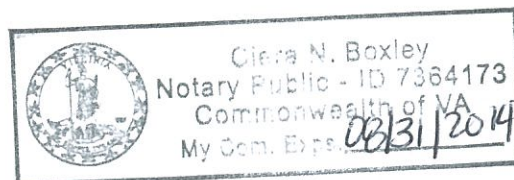
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 29th day of January, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



msk

Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 1/16/2014

HMS
mmb

Instrument Serial Number: 010623	As of 16-Jan-14
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Maintenance Date	Certification Date	Technician Initials	Remarks
14-Jan-14	14-Jan-14	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
02-Aug-13	02-Aug-13	SED (24178)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
11-Feb-13	11-Feb-13	HMS (18910)	CERTIFIED
04-Dec-12	04-Dec-12	HMS (18910)	CERTIFIED
08-Nov-12	08-Nov-12	TLN (25387)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
13-Jun-12	13-Jun-12	HMS (18910)	REPLACED KEYBOARD, CERTIFIED, REPLACED DRY GAS STANDARD.
29-Dec-11	29-Dec-11	HMS (18910)	CERTIFIED
19-Jul-11	19-Jul-11	HMS (18910)	CALIBRATED AND CERTIFIED.
14-Jul-11	14-Jul-11	HMS (18910)	CERTIFIED
12-Jul-11	03-Feb-11	HMS (18910)	REPLACED DRY GAS STANDARD, CALIBRATED.
03-Feb-11	03-Feb-11	HMS (18910)	CERTIFIED
18-Aug-10	18-Aug-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
23-Mar-10	23-Mar-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
26-Jan-10	26-Jan-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
06-Aug-09	06-Aug-09	HMS (18910)	CERTIFIED.
01-Apr-09	01-Apr-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

HHS
MMB

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010623 Worksheet Start Date 1/14/2014

Location Fauquier County

Address 78 W. Lee St., Suite 200, Warrenton, VA 22186 20186 MMB 012114

DFS Technician Heather Stanton License No. 18910

☐ Laboratory

☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 738 Reference Barometer (mm HG) 741

Reference Barometer(RB)Serial # 009113 RB Calibration Due 5/8/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.300	0.291	0.282	0.299	Sample 2	0.296
Precision		sample min	sample max	Sample 3	0.295
0.002		0.294	0.296		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.097	0.094	0.100	Sample 2	0.098
Precision		sample min	sample max	Sample 3	0.098
0		0.098	0.098		

Dry gas standard Lot No. (with tank no.) AG332301-23

☒ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:

150
200
4 pads

Notes:

Instrument Serial Number

010623

Certification Date

1/14/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.243	0.235	0.250	Sample 2	0.244
Precision		sample min	sample max	Sample 3	0.243
0.001		0.243	0.244		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.146	0.141	0.150	Sample 2	0.146
Precision		sample min	sample max	Sample 3	0.146
0		0.146	0.146		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.078	0.075	0.081	Sample 2	0.078
Precision		sample min	sample max	Sample 3	0.078
0		0.078	0.078		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.019	0.016	0.022	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Heath W. Stark

Date

1/14/14

Issuing Analyst

Michelle Belcher
msk

Date

1/21/14 1/23/14
MMB

HMS
mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010623 Test Number: 761

Test Date: 01/14/2014 Test Time: 09:52 EST

Technician Initials: HMS

Dry Gas Target: 0.243

Lot Number: 0771325014-02 Exp Date: 05/01/2015

Tank Pressure: 894 psi Barometric Pressure: 738 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:52
BLK	0.000	09:53
CHK	0.244	09:53
BLK	0.000	09:55
CHK	0.244	09:56
BLK	0.000	09:57
CHK	0.243	09:58
BLK	0.000	10:00

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
mmb

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010623 Test Number: 762
Test Date: 01/14/2014 Test Time: 10:01 EST

Technician Initials: HMS

Dry Gas Target: 0.146

Lot Number: 2951215012-02 Exp Date: 11/01/2014

Tank Pressure: 262 psi Barometric Pressure: 738 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:02
BLK	0.000	10:02
CHK	0.146	10:03
BLK	0.000	10:05
CHK	0.146	10:05
BLK	0.000	10:07
CHK	0.146	10:08
BLK	0.000	10:09

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
mmb

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010623 Test Number: 763
Test Date: 01/14/2014 Test Time: 10:11 EST

Technician Initials: HMS

Dry Gas Target: 0.078

Lot Number: 07713080I2-04 Exp Date: 05/01/2015

Tank Pressure: 404 psi Barometric Pressure: 738 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:11
BLK	0.000	10:12
CHK	0.078	10:13
BLK	0.000	10:14
CHK	0.078	10:15
BLK	0.000	10:16
CHK	0.078	10:17
BLK	0.000	10:18

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
mmb

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010623 Test Number: 764
Test Date: 01/14/2014 Test Time: 10:19 EST

Technician Initials: *HMS*

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 463 psi Barometric Pressure: 738 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:20
BLK	0.000	10:20
CHK	0.019	10:21
BLK	0.000	10:22
CHK	0.019	10:23
BLK	0.000	10:24
CHK	0.019	10:25
BLK	0.000	10:26

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

fine
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010623 Test Number: 765

Test Date: 01/14/2014 Test Time: 10:29 EST

Dry Gas Target: 0.291

Lot Number: AG322702-08 Exp Date: 08/15/2015

Tank Pressure: 188 psi Barometric Pressure: 738 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:30
CHK	0.294	10:31
BLK	0.000	10:33
CHK	0.296	10:33
BLK	0.000	10:35
CHK	0.295	10:36

Test Status: *Success*

Calibration CRC: 8D63EE3A

AMS
mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010623 Test Number: 766

Test Date: 01/14/2014 Test Time: 10:38 EST

Dry Gas Target: 0.097

Lot Number: AG332301-23 Exp Date: 11/19/2015

Tank Pressure: 1120 psi Barometric Pressure: 738 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:39
CHK	0.098	10:40
BLK	0.000	10:42
CHK	0.098	10:42
BLK	0.000	10:44
CHK	0.098	10:44

Test Status: *Success*

Calibration CRC: 8D63EE3A

Handwritten initials: LMS and mmb



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 01/14/2014
TEST EQUIPMENT NUMBER 010623		

RESULTS: TIME SAMPLE TAKEN 10:53 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 15 Jan 2014 at 14:57

Handwritten: JMS
mmB

Test Results

Instrument Serial Number 010623

Test # 000767 Subject Test

Test Location 1 Department of
Test Date 14 Jan 2014

Test Location 2 Forensic Science
Test Time 10:46
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 14 Jan 2014 End Time 10:54

Result Time 10:53

Result Date 14 Jan 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:47

Data Type BLK

Sample Value 0.000

Sample Time 10:47

Data Type CHK

Sample Value 0.098

Sample Time 10:48

Data Type BLK

Sample Value 0.000

Sample Time 10:50

Data Type SUBJ

Sample Value 0.000

Sample Time 10:50

Data Type BLK

Sample Value 0.000

Sample Time 10:51

Data Type SUBJ

Sample Value 0.000

Sample Time 10:53

Data Type BLK

Sample Value 0.000

Sample Time 10:54

Standard Type Dry Gas Std

Standard Value 0.097

Standard Lot Number AG332301-23

Standard Expiration Date 11/19/2015

Tank Pressure 1120

Barometric Pressure 738 mmHg

Blow Sample Number 1 Blow Duration 3.36 sec

Blow Volume 1809 cc End-of-Blow Time 10:50

Blow Sample Number 2 Blow Duration 3.92 sec

Blow Volume 1876 cc End-of-Blow Time 10:53

Tamper Evident Stamp 39bfad4c

Test Status Code 0

Test Status Success